### **Appendix D: Cost-Effectiveness Results**

As cited in the Energy Efficiency Policy Manual, "Cost Effectiveness is an indicator of the relative performance or economic attractiveness of any energy efficiency investment or practice when compared to the costs of energy produced and delivered in the absence of such an investment."

The Commission requires the portfolios to pass a dual cost effectiveness test. The portfolios must provide positive net benefits based on two cost effectiveness tests: the Total Resource Cost test (TRC) and the Program Administrator Cost test (PAC). Since the TRC costs are generally greater than PAC costs, in practice this dual requirement results in the TRC being the primary indicator of energy efficiency program cost effectiveness.

On an evaluated basis, every dollar invested in energy efficiency through the IOUs' 2010-2012 energy efficiency programs resulted in \$1.04 in benefits, through the TRC test "lens," and one dollar and \$1.66 in benefits based on the PAC test lens. The definition of each of these cost effectiveness tests and how they are used to evaluate the cost effectiveness of the portfolio are discussed in this appendix.

### **Cost-Effectiveness Tests**

The TRC measures the net resource benefits to all ratepayers by combining the net benefits of the program to participants and nonparticipants. The benefits are the avoided costs of the supply-side resources either avoided or deferred. The TRC costs encompass the cost of the measures or equipment installed [by the customer] and the costs incurred by the program administrator for both resource and non-resource program activities.

I Energy Efficiency Policy Manual, Version 4; p2, http://www.calmac.org/events/EE\_Policy\_Manual\_v4\_0.pdf

TRC = Benefits = Net Present Value of avoided costs of supply-side resources avoided

Costs = Net Present Value of Measure Costs paid by participants and program administrators

+ non-rebate costs incurred by program administrators

The PAC test measures program benefits in the same way the TRC test does, except that only those costs incurred by the program administrator are included (i.e., measure costs paid by the participating customers are not included).5

PAC = Benefits = Net Present Value of avoided costs of supply-side resources avoided

Costs = Net Present Value of all costs incurred by program administrators

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Because costs are specific to programs and it is not possible to disaggregate the benefits and costs to specific levels of measures or market sectors in a meaningful way, this report provides portfolio- and program-level cost effectiveness estimates. Appendix A, Table A-I presents the cost effectiveness of the portfolios as a whole; program level cost effectiveness estimates are provided in Tables I4-I7. The costs included in the TRC test remove the measure costs to free-rider participants, since the benefits associated with those participants are excluded as well.

Two additional costs were added to the both the TRC and PAC cost effectiveness calculations after processing utility reported and the evaluation updated values. First, the Energy Savings Performance Incentive (ESPI) has been added. Second, a correction in the rebated costs was made for instances in which the rebates for measures exceeded the measure cost, which results in a "negative cost" in the cost effectiveness calculator (essentially, the payment of a rebate to participants that exceeds the cost of the measure appears as a benefit in the calculator without this post-processing correction). These two cost adjustments are described in further detail below.

## Shareholder Incentives for 2010-2012

The Commission adopted a shareholder incentive mechanism that applied for the 2010-2012 period, in D.12-12-032. The shareholder incentive costs are added to the TRC and PAC costs. The source of the costs are derived from the payment claims the utilities have submitted to the Commission. These reflected a 5 percent management fee plus up to an additional I percent conformance with ex ante policy. The awards were calculated from the expenditures verified in the Commission's audit.

For 2010-12, all shareholder incentives have been approved by Commission. The awarded amounts are noted in Table D-I.

Table D-I Shareholder Incentives by IOU

|                |                   |                   | 2012                     |
|----------------|-------------------|-------------------|--------------------------|
|                | 2010 <sup>a</sup> | 2011 <sup>b</sup> | (requested) <sup>c</sup> |
| PG&E           | \$21,037,091      | \$21,561,992      | \$23,355,268             |
| SCE            | \$15,074,939      | \$13,554,610      | \$16,194,377             |
| SDG&E          | \$3,331,920       | \$3,904,664       | \$5,094,686              |
| SoCalGas       | \$2,701,870       | \$3,075,647       | \$4,326,851              |
| Total Payments | \$42,145,820      | \$42,096,913      | \$48,971,182             |

a D.12-12-032 at page 50.

b Resolution G-3491 (PG&E, SDG&E, and SoCalGas awards), approved December 6, 2013. Resolution E-4633, (SCE awards) approved December 19, 2013.

c Resolution G-3497 (PG&E, SDG&E, SoCalGas awards), approved December 18, 2014. Resolution E-4700 (SCE awards), approved December 18, 2014.

### Rebate Costs Exceeding Incremental Measure Costs

Commission policy does not expect, except in rare situations, that rebates<sup>2</sup> paid to participating customers for measure installations will exceed the gross measure installation cost<sup>3</sup> as defined by policy<sup>4</sup>. However, if this situation is proposed by a utility (a proposed rebate that exceeds the measure cost) it is expected to undergo explicit Commission staff review and approval. The claims submitted by the utilities for their 2010-2012 portfolios included a significant number of claim records for which the value of the reported rebate paid to a customer exceeded the gross measure cost. In these cases the cost effectiveness calculation results in a "negative participant net cost". For example, if the rebate to the customer was \$100 and the measure cost was only reported as \$70 then the participant cost is calculated as -\$30.

This relationship, when not reflecting true and appropriate or accurate values, erroneously decreases the total TRC cost of the portfolio, in effect "hiding" real costs that are revenue requirements to operate the programs. The estimated impact of this error for the full 2010-2012 portfolio is \$28.6 million. The impact per utility is shown in the following table. The corrected costs have been added to the portfolio and the TRC ratios recalculated.

<sup>2</sup> D.08-01-006 at 10: "The definition of the INC term, as set forth in the SPM, is restricted to "dollar benefits" such as rebates or rate incentives (monthly bill credits) paid by the sponsoring utility to the customers participating in the program"

<sup>3</sup> D.12-05-015 at 349: "As with all measures, our policy expects that incentives offered for early retirement will not exceed the actual early retirement cost." footnote: 495 "EEPMv4, Rule IV.4"

<sup>4</sup> Policy defines the TRC measure cost as either an incremental, full, or discounted full plus incremental measure installation cost depending upon the measure classification as normal replacement/replace on burnout/new construction, add-on retrofit, or early retirement respectively. See D.12-05-015 at 349.

|           | Cost Claimed    | Sum of Error –<br>Excess Rebates | Corrected Cost  |
|-----------|-----------------|----------------------------------|-----------------|
| PGE       | \$1,596,159,470 | \$19,281,414                     | \$1,681,395,236 |
| SCE       | \$1,376,850,264 | \$5,531,325                      | \$1,427,205,515 |
| SCG       | \$336,223,853   | \$695,547                        | \$347,023,768   |
| SDGE      | \$336,148,051   | \$3,118,504                      | \$351,597,826   |
| Portfolio | \$3.645.381.639 | \$28,626,791                     | \$3.807.222.345 |

**Table D-2** Excess Rebate Cost Corrections to Claimed Costs\*

# Cost Effectiveness of the 2010-2012 Programs

The impact evaluations conducted by the Commission do not include analysis of program or measure costs or cost effectiveness per se. The cost effectiveness results presented in Table 13 are calculated based on the monetized benefits of the evaluated net energy savings, compared to the incentive and program costs according to existing rules and do not include any external benefits generated by these programs. Indirect savings estimated by studies of the marketing and outreach, education and training programs, and the savings attributable to the utilities' pre–2005 codes and standards advocacy program, are also not included in the cost effectiveness calculations per Commission direction.

The shareholder incentive payments, the corrected "negative costs" resulting from rebates that exceeded measure costs, and the codes and standards advocacy program in 2010-2012 are included in the cost effectiveness calculations provided in Table D-3

#### Context of the Results

The cost effectiveness rules that guide California energy efficiency planning and evaluation are outlined

in more detail in the Standard Practice Manual. These rules are embedded in the cost effectiveness calculators that are used for reporting program accomplishments and planning programs. The rules reflect current Commission policy for assessment of the cost effectiveness of these program activities.

Certain limitations with incremental measure cost data affected the accuracy of the cost effectiveness calculations presented here. These include data quality issues associated with program tracking data as well as deemed estimates for incremental costs that are out of date and may have led to both overand under-estimates of the incremental measure costs. The largest error has been corrected, as noted above, and corrections at the measure level will be made in the future.

Likewise, the long-term savings benefits may not be accurately reflected by the simple extrapolation of first year energy savings over the expected useful life of the technology. The "dual baseline" effects can both over- and under-estimate long-term savings and consequently distort the real value of the resource. Dual baselines were captured in the 2010-2012 cost effectiveness calculator and were modeled for the non-residential lighting and other program areas where appropriate.

<sup>\*</sup>Costs are TRC Costs, Numbers do not include C&S benefits or costs

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The benefits for these programmatic activities do not consider the potential long-term market effects of the energy efficiency programs. Similarly, short term participant or non-participant spillover effects were not included in the 2010-2012 program period but will be included in the 2013-2014 program cycle savings for the first time. Long term market effects can include program effects on end user decision making (e.g. changes in knowledge and awareness), trade ally practices (e.g., changes in product availability and marketing), and changes in energy efficiency and product

and service characteristics (e.g. changes in product costs and features). The primary focus of the 2010–2012 impact evaluations was on the estimation of the immediate and direct impacts of the 2010–2012 programs and the cost benefit calculations reflect those requirements. While the inclusion of market-driven effects could result in higher benefit-cost (B/C) ratios it could also result in a lower level of estimated net savings for utility programs even though total societal savings from both utility program and market forces are significant.

**Table D-3** IOU Reported and Commission Evaluated Cost Effectiveness

|                                       |            | Re               | eported       |       | Benefit        | Evaluated<br>efit Cost |                  |                         |                      |                  |
|---------------------------------------|------------|------------------|---------------|-------|----------------|------------------------|------------------|-------------------------|----------------------|------------------|
| IOU                                   | CE<br>Test | Benefit<br>(M\$) | Cost<br>(M\$) | Ratio | w/C&S<br>(M\$) | w/C&S<br>(M\$)         | Ratio<br>(w/C&S) | Benefit no<br>C&S (M\$) | Cost no<br>C&S (M\$) | Ratio-<br>no C&S |
| PG&E                                  | TRC        | 2,310            | 1,596         | 1.45  | 2,238          | 1,825                  | 1.23             | 1,595                   | 1,681                | 0.95             |
| FGXE                                  | PAC        | 2,310            | 1,024         | 2.26  | 2,238          | 1,123                  | 1.99             | 1,595                   | 1,109                | 1.44             |
| SCE                                   | TRC        | 2,080            | 1,377         | 1.51  | 2,329          | 1,627                  | 1.43             | 1,605                   | 1,427                | 1.12             |
| 3CE                                   | PAC        | 2,080            | 834           | 2.49  | 2,329          | 889                    | 2.62             | 1,605                   | 885                  | 1.81             |
| · · · · · · · · · · · · · · · · · · · | TRC        | 407              | 336           | 1.21  | 561            | 379                    | 1.48             | 456                     | 347                  | 1.32             |
| SCG                                   | PAC        | 407              | 170           | 2.39  | 561            | 182                    | 3.08             | 456                     | 181                  | 2.52             |
| SDG&E                                 | TRC        | 425              | 336           | 1.27  | 404            | 400                    | 1.01             | 315                     | 352                  | 0.89             |
| SDG&E                                 | PAC        | 425              | 208           | 2.05  | 404            | 225                    | 1.80             | 315                     | 223                  | 1.41             |
| D+                                    | TRC        | 5,222            | 3,645         | 1.43  | 5,532          | 4,230                  | 1.31             | 3,972                   | 3,807                | 1.04             |
| Portfolio                             | PAC        | 5,222            | 2,236         | 2.34  | 5,532          | 2,419                  | 2.29             | 3,972                   | 2,398                | 1.66             |

**Table D-4** Cost Effectiveness by Program for PG&E

|           |   | Total Reso      | urce Cost     | Program Administration Cost |               |  |
|-----------|---|-----------------|---------------|-----------------------------|---------------|--|
| ProgramID | ProgramName   | Reported<br>TRC | Evaluated TRC | Reported PAC                | Evaluated PAC |  |
| PGE21001  | Home Energy Efficiency<br>Surveys Program                   | 0.23            | 0.55          | 0.23                        | 0.55          |  |
| PGE21002  | Residential Lighting<br>Incentive Program for<br>Basic CFLs | 8.59            | 9.30          | 13.01                       | 14.09         |  |
| PGE21003  | Advanced Consumer<br>Lighting Program                       | 1.43            | 1.50          | 3.26                        | 3.42          |  |
| PGE21004  | Home Energy Efficiency<br>Rebates                           | 0.53            | 0.53          | 1.86                        | 1.86          |  |
| PGE21005  | Appliance Recycling<br>Program                              | 0.75            | 0.54          | 0.88                        | 0.63          |  |
| PGE21006  | Business and Consumer<br>Electronics Program                | 1.72            | 1.68          | 2.31                        | 2.26          |  |
| PGE21007  | Multifamily Energy<br>Efficiency Rebates<br>Program         | 0.91            | 0.90          | 1.62                        | 1.61          |  |
| PGE21008  | Whole House<br>Performance Program                          | 0.20            | 0.05          | 0.47                        | 0.11          |  |
| PGE21011  | Commercial Calculated Incentives                            | 1.49            | 0.75          | 2.71                        | 1.37          |  |
| PGE21012  | Commercial Deemed Incentives                                | 1.68            | 1.09          | 3.35                        | 2.17          |  |
| PGE21013  | Commercial Continuous<br>Energy Improvement                 | -               | -             | -                           | -             |  |
| PGE21014  | Nonresidential<br>Commercial Audits<br>Program              | 0.24            | 0.24          | 0.24                        | 0.24          |  |
| PGE21021  | Industrial Calculated<br>Incentives                         | 2.57            | 1.54          | 4.77                        | 2.86          |  |
| PGE21022  | Industrial Deemed<br>Incentives                             | 2.01            | 1.16          | 2.95                        | 1.70          |  |
| PGE21023  | Industrial Continuous<br>Energy Improvement                 | -               | -             | -                           | -             |  |
| PGE21024  | Nonresidential Industrial<br>Audits Program                 | 0.14            | 0.14          | 0.14                        | 0.14          |  |
| PGE21031  | Agricultural Calculated Incentives                          | 2.10            | 1.10          | 3.29                        | 1.72          |  |
| PGE21032  | Agricultural Deemed<br>Incentives                           | 1.74            | 1.46          | 3.68                        | 3.10          |  |
| PGE21033  | Agricultural Continuous<br>Energy Improvement               | -               | -             | -                           | -             |  |
| PGE21034  | Nonresidential Agricultural<br>Audits Program               | 0.13            | 0.13          | 0.13                        | 0.13          |  |

|           |   | Total Reso      | urce Cost        | Program Administration Cost |               |  |
|-----------|---|-----------------|------------------|-----------------------------|---------------|--|
| ProgramID | <b>ProgramName</b>  | Reported<br>TRC | Evaluated<br>TRC | Reported PAC                | Evaluated PAC |  |
| PGE21035  | Agricultural Pump<br>Efficiency Services<br>Program                                     | 1.54            | 0.75             | 3.05                        | 1.49          |  |
| PGE21041  | Residential New<br>Construction   | 0.48            | 0.48             | 0.55                        | 0.55          |  |
| PGE21042  | Savings By Design   | 2.55            | 1.20             | 2.80                        | 1.32          |  |
| PGE2105   | Lighting Market<br>Transformation   | -               | -                | -                           | -             |  |
| PGE21061  | Upstream HVAC<br>Equipment Incentive  | 1.11            | 1.07             | 1.43                        | 1.38          |  |
| PGE21062  | HVAC Technologies<br>and System Diagnostics<br>Advocacy                                 | -               | -                | -                           | -             |  |
| PGE21063  | Commercial Quality Installation   | 0.00            | 0.00             | 0.00                        | 0.00          |  |
| PGE21064  | ENERGY STAR Residential<br>Quality Installation<br>Program                              | 0.24            | 0.24             | 0.27                        | 0.27          |  |
| PGE21065  | Residential Quality<br>Maintenance and<br>Commercial Quality<br>Maintenance Development | 0.45            | 0.36             | 0.53                        | 0.43          |  |
| PGE21066  | Workforce Education & Training  | -               | -                | -                           | -             |  |
| PGE21081  | Assessments   | -               | -                | -                           | -             |  |
| PGE21082  | Scaled Field Placement  | -               | -                | -                           | -             |  |
| PGE21083  | Demonstration /<br>Showcasing   | -               | -                | -                           | -             |  |
| PGE21084  | Market and Behavioral<br>Studies  | -               | -                | -                           | -             |  |
| PGE21085  | Technology Supply Side<br>Efforts   | -               | -                | -                           | -             |  |
| PGE21086  | Incubation  |                 |                  | -                           |               |  |
| PGE21091  | WE&T Centergies   | -               | -                | -                           | -             |  |
| PGE21092  | WE&T Connections  | -               | -                | -                           | -             |  |
| PGE21093  | WE&T Strategic Plan<br>Implementation   | -               | -                | -                           | -             |  |
| PGE21101  | Statewide Marketing & Outreach  | -               | -                | -                           | -             |  |
| PGE21102  | ME&O Strategic Plan<br>Support  | -               | -                | -                           | -             |  |
| PGE2III   | Statewide DSM<br>Coordination & Integration<br>(3)                                      | -               | -                | -                           | -             |  |

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|           |   | Total Reso      | urce Cost     | Program Administration Cost |               |  |
|-----------|---|-----------------|---------------|-----------------------------|---------------|--|
| ProgramID | Program <b>N</b> ame  | Reported<br>TRC | Evaluated TRC | Reported PAC                | Evaluated PAC |  |
| PGE2112   | Zero Net Pilots   | -               | _             | -                           | -             |  |
| PGE21131  | Integrated Marketing  | -               | -             | -                           | -             |  |
| PGE21132  | Integrated Education & Training   | -               | -             | -                           | -             |  |
| PGE21133  | Integrated Sales Training   | -               | -             | -                           | -             |  |
| PGE21134  | Integration Support   | -               | -             | -                           | -             |  |
| PGE2114   | On-Bill Financing   | -               | -             | -                           | -             |  |
| PGE2125   | Local Government Energy<br>Action Resource (LGEAR)                      | 0.66            | 0.30          | 0.80                        | 0.37          |  |
| PGE21251  | INNOVATOR PILOTS<br>PROGRAM   | -               | -             | -                           | -             |  |
| PGE21252  | GREEN COMMUNITIES   | -               | -             | -                           | -             |  |
| PGE21261  | California Community<br>Colleges  | 0.75            | 0.40          | 2.10                        | 1.12          |  |
| PGE21262  | University of California/<br>California State University                | 1.40            | 0.70          | 2.51                        | 1.24          |  |
| PGE21263  | State of California   | 1.01            | 0.54          | 1.86                        | 0.99          |  |
| PGE21264  | Department of<br>Corrections and<br>Rehabilitation                      | 2.77            | 1.72          | 2.74                        | 1.70          |  |
| PGE2130   | Association of Monterey<br>Bay Area Governments<br>(AMBAG) Energy Watch | 1.09            | 0.72          | 1.31                        | 0.87          |  |
| PGE2I3I   | City of San Joaquin Energy<br>Watch                                     | 1.41            | 0.52          | 1.84                        | 0.68          |  |
| PGE2I32   | East Bay Energy Watch   | 2.20            | 1.19          | 2.73                        | 1.47          |  |
| PGE2133   | Fresno County Energy<br>Watch   | 2.21            | 0.87          | 3.49                        | 1.38          |  |
| PGE2134   | Kern County Energy<br>Watch   | 1.17            | 0.58          | 1.23                        | 0.62          |  |
| PGE2135   | Madera County Energy<br>Watch   | 1.86            | 0.78          | 3.39                        | 1.42          |  |
| PGE2136   | Marin County Energy<br>Watch  | 1.13            | 0.62          | 1.52                        | 0.83          |  |
| PGE2137   | Mendocino County Energy<br>Watch  | 0.72            | 0.30          | 0.86                        | 0.35          |  |
| PGE2I38   | Napa County Energy<br>Watch   | 1.05            | 0.64          | 1.48                        | 0.91          |  |
| PGE2139   | Redwood Energy Watch  | 1.50            | 0.90          | 1.60                        | 0.96          |  |
| PGE2140   | San Joaquin County<br>Energy Watch                                      | 1.51            | 0.76          | 1.59                        | 0.80          |  |
| PGE2I4I   | San Luis Obispo County<br>Energy Watch                                  | 1.01            | 0.51          | 1.05                        | 0.53          |  |

|           |  | Total Reso      | urce Cost        | Program Administration Cost |               |  |
|-----------|--|-----------------|------------------|-----------------------------|---------------|--|
| ProgramID | ProgramName  | Reported<br>TRC | Evaluated<br>TRC | Reported<br>PAC             | Evaluated PAC |  |
| PGE2142   | San Mateo County Energy<br>Watch                       | 1.01            | 0.48             | 1.35                        | 0.65          |  |
| PGE2143   | Santa Barbara County<br>Energy Watch                   | 1.03            | 0.55             | 1.09                        | 0.58          |  |
| PGE2144   | Sierra Nevada Energy<br>Watch                          | 1.22            | 0.61             | 1.59                        | 0.79          |  |
| PGE2145   | Sonoma County Energy<br>Watch                          | 0.76            | 0.44             | 1.52                        | 0.88          |  |
| PGE2146   | Silicon Valley Energy<br>Watch                         | 1.19            | 0.58             | 1.51                        | 0.74          |  |
| PGE2147   | San Francisco Energy<br>Watch                          | 1.76            | 1.24             | 1.86                        | 1.31          |  |
| PGE2176   | California New Homes<br>Multifamily                    | 0.90            | 0.90             | 0.88                        | 0.88          |  |
| PGE2177   | Enhance Time Delay Relay                               | 0.74            | 0.74             | 0.79                        | 0.79          |  |
| PGE2178   | ENERGY STAR<br>Manufactured Homes                      | 0.66            | 0.66             | 0.78                        | 0.78          |  |
| PGE2179   | Direct Install for<br>Manufactured and Mobile<br>Homes | 1.98            | 1.98             | 1.98                        | 1.98          |  |
| PGE2181   | Air Care Plus  | 1.92            | 1.41             | 2.12                        | 1.56          |  |
| PGE2182   | Boiler Energy Efficiency<br>Program                    | 1.01            | 0.75             | 1.70                        | 1.26          |  |
| PGE2183   | Comprehensive Retail<br>Energy Management              | 1.16            | 0.47             | 1.39                        | 0.57          |  |
| PGE2185   | EnergySmart Grocer                                     | 1.65            | 1.61             | 2.64                        | 2.58          |  |
| PGE2186   | Enhanced Automation<br>Initiative                      | 5.18            | 2.76             | 6.13                        | 3.26          |  |
| PGE2187   | Monitoring-<br>Based Persistence<br>Commissioning      | 1.06            | 0.50             | 1.68                        | 0.78          |  |
| PGE2189   | Cool Controls Plus                                     | 1.99            | 1.96             | 1.99                        | 1.96          |  |
| PGE2190   | LodgingSavers  | 1.55            | 1.07             | 1.56                        | 1.07          |  |
| PGE2191   | Medical Building Tune-Up                               | 1.14            | 0.49             | 1.20                        | 0.52          |  |
| PGE2193   | School Energy Efficiency                               | 0.93            | 0.74             | 1.32                        | 1.05          |  |
| PGE2194   | Energy Fitness Program                                 | 2.44            | 0.93             | 4.08                        | 1.56          |  |
| PGE2195   | Energy Savers  | 1.66            | 1.09             | 1.96                        | 1.28          |  |
| PGE2196   | RightLights  | 2.27            | 1.01             | 2.27                        | 1.01          |  |
| PGE2197   | Small Business Commercial<br>Comprehensive             | 2.03            | 1.37             | 2.03                        | 1.37          |  |
| PGE2198   | DCCCP Quest  | 1.42            | 0.69             | 1.71                        | 0.84          |  |

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|           |  | Total Reso      | urce Cost        | Program Administration Cost |               |  |
|-----------|--|-----------------|------------------|-----------------------------|---------------|--|
| ProgramID | ProgramName  | Reported<br>TRC | Evaluated<br>TRC | Reported<br>PAC             | Evaluated PAC |  |
| PGE2199   | Energy-Efficient Parking<br>Garage                         | 1.37            | 1.35             | 1.58                        | 1.56          |  |
| PGE2200   | Furniture Store Energy<br>Efficiency                       | 1.07            | 0.46             | 1.07                        | 0.46          |  |
| PGE2201   | High Performance Office<br>Lighting                        | 1.63            | 1.61             | 1.49                        | 1.48          |  |
| PGE2202   | LED Accelerator  | 1.23            | 1.20             | 1.06                        | 1.03          |  |
| PGE2203   | Monitoring-Based<br>Commissioning                          | -               | -                | -                           | -             |  |
| PGE2204   | SmartVent for Energy-<br>Efficient Kitchens                | 1.23            | 1.23             | 1.23                        | 1.23          |  |
| PGE2205   | Casino Green   | 1.89            | 1.08             | 1.91                        | 1.09          |  |
| PGE2206   | Healthcare Energy<br>Efficiency Program                    | 0.39            | 0.20             | 0.44                        | 0.23          |  |
| PGE2209   | Ozone Laundry Energy<br>Efficiency                         | 1.26            | 0.75             | 1.46                        | 0.87          |  |
| PGE2210   | Cool Schools   | -               | -                | -                           | -             |  |
| PGE2212   | California Preschool<br>Energy Efficiency Program          | 1.31            | 0.54             | 1.31                        | 0.54          |  |
| PGE22I3   | K-12 Private Schools and<br>Colleges Audit Retro           | 0.65            | 0.32             | 0.81                        | 0.40          |  |
| PGE2214   | EE Entertainment Centers                                   | 0.98            | 0.96             | 1.02                        | 1.00          |  |
| PGE2220   | AIM Compressed Air<br>Efficiency                           | 1.05            | 0.47             | 1.13                        | 0.51          |  |
| PGE222I   | California Wastewater<br>Process Optimization              | 0.95            | 0.47             | 1.36                        | 0.67          |  |
| PGE2222   | Energy Efficiency Services for Oil Production              | 1.50            | 0.74             | 3.86                        | 1.90          |  |
| PGE2223   | Heavy Industry Energy<br>Efficiency Program                | 1.80            | 1.02             | 2.24                        | 1.27          |  |
| PGE2224   | Industrial Compressed Air                                  | 2.16            | 0.97             | 2.32                        | 1.04          |  |
| PGE2225   | Refinery Energy Efficiency<br>Program                      | 2.07            | 1.31             | 5.15                        | 3.25          |  |
| PGE2227   | Cement Production<br>and Distribution Energy<br>Efficiency | 0.06            | 0.03             | 0.07                        | 0.03          |  |
| PGE2228   | Industrial Recommissioning<br>Program                      | 1.30            | 0.68             | 1.35                        | 0.71          |  |
| PGE2230   | Dairy Energy Efficiency<br>Program                         | 0.76            | 0.71             | 1.83                        | 1.70          |  |
| PGE2231   | Industrial Refrigeration<br>Performance Plus               | 0.76            | 0.39             | 2.31                        | 1.18          |  |
| PGE2232   | Light Exchange Program                                     | 1.18            | 1.16             | 1.18                        | 1.16          |  |

|           |  | Total Resource Cost |                  |                 | gram<br>ation Cost |
|-----------|--|---------------------|------------------|-----------------|--------------------|
| ProgramID | <b>ProgramName</b>   | Reported<br>TRC     | Evaluated<br>TRC | Reported<br>PAC | Evaluated PAC      |
| PGE2233   | Wine Industry Efficiency<br>Solutions                            | 0.79                | 0.57             | 1.23            | 0.90               |
| PGE2234   | Comprehensive Food<br>Process Audit & Resource<br>Efficiency Pgm | 1.52                | 0.79             | 2.08            | 1.09               |
| PGE2235   | Dairy Industry Resource<br>Advantage Pgm                         | 1.42                | 0.75             | 1.69            | 0.89               |
| PGE2236   | Process Wastewater<br>Treatment EM Pgm for Ag<br>Food Processing | 2.85                | 1.28             | 3.25            | 1.46               |
| PGE2240   | Builder Energy Code<br>Training                                  | -                   | -                | -               | -                  |
| PGE224I   | Green Building Technical<br>Support Services                     | -                   | -                | -               | -                  |
| PGE2242   | Cool Cash  | 0.33                | 0.13             | 0.38            | 0.15               |

**Table D-5** Cost Effectiveness by Program for SCE

|            |   | Total Resou     | ırce Cost        | Program Administration Cost |               |  |
|------------|---|-----------------|------------------|-----------------------------|---------------|--|
| ProgramID  | <b>ProgramName</b>  | Reported<br>TRC | Evaluated<br>TRC | Reported PAC                | Evaluated PAC |  |
| SCE-L-001  | On-Line Buyer's Guide   | -               | -                | -                           | -             |  |
| SCE-L-002  | Financial Solutions   | -               | -                | -                           | -             |  |
| SCE-L-003  | Integrated Demand Side<br>Management Pilot for<br>Food Processing | -               | -                | -                           | -             |  |
| SCE-L-004A | City of Beaumont Energy<br>Leader Partnership                     | 0.26            | 0.15             | 0.27                        | 0.16          |  |
| SCE-L-004B | City of Long Beach<br>Energy Leader<br>Partnership                | 1.15            | 0.82             | 1.56                        | 1.11          |  |
| SCE-L-004C | City of Redlands Energy<br>Leader Partnership                     | 0.57            | 0.31             | 0.84                        | 0.46          |  |
| SCE-L-004D | City of Ridgecrest Energy<br>Leader Partnership                   | 0.01            | 0.01             | 0.01                        | 0.01          |  |
| SCE-L-004E | City of Santa Ana Energy<br>Leader Partnership                    | 0.43            | 0.32             | 1.01                        | 0.77          |  |
| SCE-L-004F | City of Simi Valley Energy<br>Leader Partnership                  | 0.52            | 0.32             | 0.60                        | 0.37          |  |

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|                 |  | Total Resou | Irco Cost | Program Administration Cost |           |  |
|-----------------|--|-------------|-----------|-----------------------------|-----------|--|
|                 |  | Reported    | Evaluated | Reported                    | Evaluated |  |
| ProgramID       | <b>ProgramName</b>   | TRC         | TRC       | PAC                         | PAC       |  |
| SCE-L-004G      | City of South Gate<br>Energy Leader<br>Partnership         | 0.11        | 0.09      | 0.28                        | 0.23      |  |
| SCE-L-004H      | Community Energy<br>Leader Partnership                     | 0.76        | 0.53      | 1.39                        | 0.97      |  |
| SCE-L-004I      | Desert Cities Energy<br>Leader Partnership                 | 0.72        | 0.60      | 1.25                        | 1.05      |  |
| SCE-L-004J      | Eastern Sierra Energy<br>Leader Partnership                | 0.06        | 0.05      | 0.06                        | 0.05      |  |
| SCE-L-004K      | Energy Leader<br>Partnership Strategic<br>Support          | -           | -         | -                           | -         |  |
| SCE-L-004L      | Kern County Energy<br>Leader Partnership                   | 0.38        | 0.24      | 0.40                        | 0.25      |  |
| SCE-L-004M      | Orange County<br>Cities Energy Leader<br>Partnership       | 0.57        | 0.33      | 1.81                        | 1.04      |  |
| SCE-L-004N      | Palm Desert<br>Demonstration<br>Partnership                | 0.62        | 0.49      | 0.78                        | 0.61      |  |
| SCE-L-004O      | San Gabriel Valley Energy<br>Leader Partnership            | 1.04        | 0.79      | 2.05                        | 1.56      |  |
| SCE-L-004P      | San Joaquin Valley Energy<br>Leader Partnership            | 0.97        | 0.56      | 1.75                        | 1.01      |  |
| SCE-L-004Q      | South Bay Energy Leader<br>Partnership                     | 0.59        | 0.39      | 1.08                        | 0.71      |  |
| SCE-L-004R      | South Santa Barbara<br>County Energy Leader<br>Partnership | 0.26        | 0.19      | 0.45                        | 0.33      |  |
| SCE-L-004Rollup | Energy Leader<br>Partnership Program                       | -           | -         | -                           | -         |  |
| SCE-L-004S      | Ventura County Energy<br>Leader Partnership                | 0.54        | 0.31      | 0.82                        | 0.48      |  |
| SCE-L-004T      | Local Government<br>Strategic Planning Pilot<br>Program    | -           | -         | -                           | -         |  |
| SCE-L-004U      | Western Riverside<br>Energy Leader<br>Partnership          | 0.65        | 0.44      | 0.84                        | 0.57      |  |
| SCE-L-004V      | City of Adelanto Energy<br>Leader Partnership              | 0.17        | 0.10      | 0.48                        | 0.30      |  |

|                 |  | Total Resou     | ırce Cost        | Program Administration Cost |               |  |
|-----------------|--|-----------------|------------------|-----------------------------|---------------|--|
| ProgramID       | ProgramName  | Reported<br>TRC | Evaluated<br>TRC | Reported PAC                | Evaluated PAC |  |
| SCE-L-004W      | West Side Energy Leader<br>Partnership   | 1.18            | 1.06             | 2.72                        | 2.43          |  |
| SCE-L-005A      | California Community<br>Colleges Energy<br>Efficiency Partnership                              | 0.67            | 0.44             | 1.74                        | 1.14          |  |
| SCE-L-005B      | California Department<br>of Corrections and<br>Rehabilitation Energy<br>Efficiency Partnership | 0.60            | 0.37             | 1.35                        | 0.83          |  |
| SCE-L-005C      | County of Los Angeles<br>Energy Efficiency<br>Partnership                                      | 0.67            | 0.33             | 1.94                        | 0.97          |  |
| SCE-L-005D      | County of Riverside<br>Energy Efficiency<br>Partnership  | 0.69            | 0.41             | 0.77                        | 0.45          |  |
| SCE-L-005E      | County of San<br>Bernardino Energy<br>Efficiency Partnership                                   | 0.73            | 0.53             | 1.27                        | 0.91          |  |
| SCE-L-005F      | State of California Energy<br>Efficiency Partnership   | 1.06            | 0.65             | 2.10                        | 1.28          |  |
| SCE-L-005G      | UC/CSU Energy<br>Efficiency Partnership  | 0.99            | 0.59             | 2.33                        | 1.39          |  |
| SCE-L-005Rollup | IGREEN   | -               | -                | -                           | -             |  |
| SCE-L-006       | Integrated Marketing &<br>Outreach   | -               | -                | -                           | -             |  |
| SCE-SW-001A     | Home Energy Efficiency<br>Survey Program   | 0.88            | 1.00             | 1.61                        | 1.85          |  |
| SCE-SW-001B     | Residential Lighting<br>Incentive Program for<br>Basic CFLs                                    | 6.48            | 8.12             | 9.15                        | 11.46         |  |
| SCE-SW-001C     | Advanced Consumer<br>Lighting Program  | 3.08            | 3.06             | 5.74                        | 5.70          |  |
| SCE-SW-001D     | Home Energy Efficiency<br>Rebate Program   | 1.14            | 1.14             | 1.26                        | 1.26          |  |
| SCE-SW-001E     | Appliance Recycling<br>Program   | 1.53            | 1.03             | 1.53                        | 1.03          |  |
| SCE-SW-001F     | Business and Consumer<br>Electronics Program   | 2.90            | 2.85             | 4.00                        | 3.94          |  |
| SCE-SW-001G     | Multifamily Energy<br>Efficiency Rebate<br>Program   | 1.30            | 1.30             | 1.15                        | 1.15          |  |

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|             |   | Total Resou     | ırce Cost        | Program Administration Cost |                  |  |
|-------------|---|-----------------|------------------|-----------------------------|------------------|--|
| ProgramID   | ProgramName   | Reported<br>TRC | Evaluated<br>TRC | Reported PAC                | Evaluated<br>PAC |  |
| SCE-SW-001H | Whole House<br>Prescriptive Program                     | 0.03            | 0.04             | 0.03                        | 0.04             |  |
| SCE-SW-002A | Non-Residential Audits                                  | -               | -                | -                           | -                |  |
| SCE-SW-002B | Calculated Incentives<br>Program                        | 1.05            | 0.62             | 3.27                        | 1.92             |  |
| SCE-SW-002C | Deemed Incentives<br>Program                            | 1.37            | 0.84             | 3.90                        | 2.39             |  |
| SCE-SW-002D | Commercial Direct Install<br>Program                    | 1.94            | 0.90             | 1.94                        | 0.90             |  |
| SCE-SW-002E | Continuous Energy<br>Improvement                        | -               | -                | -                           | -                |  |
| SCE-SW-003A | Industrial Energy Audit<br>Program                      | -               | -                | -                           | -                |  |
| SCE-SW-003B | Industrial Calculated<br>Energy Efficiency<br>Program   | 1.50            | 0.79             | 3.98                        | 2.09             |  |
| SCE-SW-003C | Industrial Deemed<br>Energy Efficiency<br>Program       | 1.44            | 0.74             | 3.57                        | 1.82             |  |
| SCE-SW-003D | Industrial Continuous<br>Energy Improvement<br>Program  | -               | -                | -                           | -                |  |
| SCE-SW-004A | Agriculture Energy Audit<br>Program                     | -               | -                | -                           | -                |  |
| SCE-SW-004B | Agriculture Calculated<br>Energy Efficiency<br>Program  | 1.22            | 0.67             | 2.66                        | 1.46             |  |
| SCE-SW-004C | Agriculture Deemed<br>Energy Efficiency<br>Program      | 1.01            | 0.59             | 1.86                        | 1.09             |  |
| SCE-SW-004D | Agriculture Continuous<br>Energy Improvement<br>Program | -               | -                | -                           | -                |  |
| SCE-SW-004E | Pump Test Services<br>Program                           | 0.82            | 0.82             | 2.08                        | 2.08             |  |
| SCE-SW-005A | Savings By Design                                       | 2.41            | 1.44             | 3.59                        | 2.14             |  |
| SCE-SW-005B | California Advanced<br>Homes                            | 0.40            | 0.40             | 0.39                        | 0.39             |  |
| SCE-SW-005C | Energy Star Manufactured<br>Housing                     | -               | -                | -                           | -                |  |

|                      |  | Total Resou     | Total Resource Cost |              | Program Administration Cost |  |
|----------------------|--|-----------------|---------------------|--------------|-----------------------------|--|
| ProgramID            | <b>ProgramName</b>   | Reported<br>TRC | Evaluated<br>TRC    | Reported PAC | Evaluated PAC               |  |
| SCE-SW-006           | Statewide Lighting Market<br>Transformation Program                            | -               | -                   | -            | -                           |  |
| SCE-SW-007A          | Upstream HVAC<br>Equipment Incentive   | 0.99            | 1.11                | 2.09         | 2.35                        |  |
| SCE-SW-007B          | HVAC Technologies<br>and System Diagnostics<br>Advocacy                        | -               | -                   | -            | -                           |  |
| SCE-SW-007C          | Commercial Quality<br>Installation   | -               | -                   | -            | -                           |  |
| SCE-SW-007D          | ENERGY STAR<br>Residential Quality<br>Installation Program                     | 0.02            | 0.01                | 0.07         | 0.03                        |  |
| SCE-SW-007E          | Residential Quality Maintenance and Commercial Quality Maintenance Development | 0.23            | 0.17                | 0.22         | 0.17                        |  |
| SCE-SW-007F          | HVAC Workforce<br>Education & Training   | -               | -                   | -            | -                           |  |
| SCE-SW-008           | CFL Adjustment   | -               | -                   | -            | -                           |  |
| SCE-SW-009A          | Technology Assessments   | -               | -                   | -            | -                           |  |
| SCE-SW-009B          | Scaled Field Placements  | -               | -                   | -            | -                           |  |
| SCE-SW-009C          | Demonstration<br>Showcases   | -               | -                   | -            | -                           |  |
| SCE-SW-009D          | Market and Behavioral<br>Studies   | -               | -                   | -            | -                           |  |
| SCE-SW-009E          | Technology Development<br>Support  | -               | -                   | -            | -                           |  |
| SCE-SW-009F          | Business Incubation<br>Support   | -               | -                   | -            | -                           |  |
| SCE-SW-009G          | Technology Test Centers  | -               | -                   | -            | -                           |  |
| SCE-SW-<br>009Rollup | Program Mgmt & CPUC<br>Reporting   | -               | -                   | -            | -                           |  |
| SCE-SW-010A          | WE&T Centergies  | -               | -                   | -            |                             |  |
| SCE-SW-010B          | WE&T Connections   | 0.42            | 0.42                | 0.42         | 0.42                        |  |
| SCE-SW-010C          | WE&T Planning  | -               | -                   | -            | -                           |  |
| SCE-SW-011A          | Statewide ME&O   |                 |                     |              |                             |  |
| SCE-SW-011B          | ME&O Strategic Plan  | -               | -                   | -            | -                           |  |
| SCE-SW-012           | Integrated DSM   | -               | -                   | -            | -                           |  |
| SCE-SW-CFL           | CFL Adjustment   | -               | -                   | -            | -                           |  |

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|            |  | Total Reso      | Total Resource Cost |              | Program Administration Cost |  |
|------------|--|-----------------|---------------------|--------------|-----------------------------|--|
| ProgramID  | <b>P</b> rogram <b>N</b> ame                                       | Reported<br>TRC | Evaluated<br>TRC    | Reported PAC | Evaluated PAC               |  |
| SCE-TP-001 | Efficient Affordable<br>Housing                                    | -               | -                   | -            | -                           |  |
| SCE-TP-002 | Comprehensive Mobile<br>Home                                       | 1.13            | 1.13                | 1.13         | 1.13                        |  |
| SCE-TP-003 | Comprehensive Home<br>Performance                                  | 0.05            | 0.03                | 0.06         | 0.04                        |  |
| SCE-TP-004 | Community Language<br>Efficiency Outreach                          | -               | -                   | -            | -                           |  |
| SCE-TP-005 | Cool Planet  | -               | -                   | -            | -                           |  |
| SCE-TP-006 | Healthcare EE Program<br>(HEEP)                                    | 0.77            | 0.41                | 1.93         | 1.02                        |  |
| SCE-TP-007 | Livestock Industry<br>Resource Advantage                           | -               | -                   | -            | -                           |  |
| SCE-TP-008 | Comprehensive Beverage<br>Manufacturing and<br>Resource Efficiency | 0.48            | 0.24                | 1.84         | 0.90                        |  |
| SCE-TP-009 | Solid Waste Energy<br>Efficiency Program                           | -               | -                   | -            | -                           |  |
| SCE-TP-010 | Data Center Energy<br>Efficiency                                   | 0.73            | 0.45                | 1.09         | 0.68                        |  |
| SCE-TP-011 | Data Center<br>Optimization  | -               | -                   | -            | -                           |  |
| SCE-TP-012 | Lodging EE Program<br>(LEEP)                                       | 1.00            | 0.56                | 2.15         | 1.22                        |  |
| SCE-TP-013 | Food & Kindred Products  | 1.63            | 0.80                | 2.43         | 1.19                        |  |
| SCE-TP-014 | Primary and Fabricated<br>Metals                                   | 1.99            | 0.89                | 3.12         | 1.39                        |  |
| SCE-TP-015 | Industrial Gasses  | 1.15            | 0.64                | 1.39         | 0.77                        |  |
| SCE-TP-016 | Nonmetallic Minerals and Products                                  | 1.30            | 0.68                | 2.41         | 1.26                        |  |
| SCE-TP-017 | Comprehensive Chemical Products                                    | 0.45            | 0.25                | 0.52         | 0.28                        |  |
| SCE-TP-018 | Chemical Products<br>Efficiency Program<br>(CPEP)                  | 0.69            | 0.34                | 0.82         | 0.40                        |  |
| SCE-TP-019 | Comprehensive<br>Petroleum Refining                                | 0.23            | 0.12                | 0.24         | 0.13                        |  |
| SCE-TP-020 | Oil Production   | 1.95            | 1.04                | 3.08         | 1.64                        |  |
| SCE-TP-02I | Refinery Energy Efficiency<br>Program (REEP)                       | 3.20            | 1.36                | 3.55         | 1.51                        |  |
| SCE-TP-023 | Cool Schools   | 0.29            | 0.23                | 0.42         | 0.32                        |  |

|             |  |                     |               | Prog               |               |
|-------------|--|---------------------|---------------|--------------------|---------------|
|             |  | Total Resource Cost |               | Administration Cos |               |
| ProgramID   | <b>ProgramName</b>   | Reported<br>TRC     | Evaluated TRC | Reported PAC       | Evaluated PAC |
| SCE-TP-024  | Public Pre-Schools,<br>Elementary Schools and<br>High Schools        | 1.93                | 0.82          | 1.93               | 0.82          |
| SCE-TP-025  | Retail Energy Action<br>Program (REAP)                               | 0.74                | 0.60          | 1.58               | 1.30          |
| SCE-TP-026  | Commercial Utility<br>Building Efficiency<br>(CUBE)                  | 0.79                | 0.43          | 1.43               | 0.78          |
| SCE-TP-027  | Monitoring-Based<br>Commissioning (MBx)                              | -                   | -             | -                  | -             |
| SCE-TP-028  | Monitoring-<br>Based Persistence<br>Commissioning Program<br>(MBPCx) | -                   | -             | -                  | -             |
| SCE-TP-030  | Sustainable Portfolios   | -                   | -             | -                  | -             |
| SCE-TP-031  | Management Affiliates<br>Program (MAP)                               | 1.01                | 0.61          | 1.60               | 0.96          |
| SCE-TP-032  | Private College Campus<br>Housing                                    | -                   | -             | -                  | -             |
| SCE-TP-033  | Automatic Energy Review for Schools                                  | 4.55                | 2.45          | 5.71               | 3.07          |
| SCE-TP-034  | Sustainable Communities  | -                   | -             | -                  | -             |
| SCE-TP-036  | Energy Efficiency for<br>Entertainment Centers                       | 1.84                | 1.66          | 1.84               | 1.66          |
| SCE-TP-037  | Private Schools and<br>Colleges Program                              | 1.65                | 0.69          | 1.65               | 0.69          |
| SCE-TP-038  | California Preschools<br>Program (CPEEP)                             | 1.13                | 0.46          | 1.13               | 0.46          |
| SCE-TP-0608 | Coin Operated Laundry<br>Program                                     | 0.86                | 0.38          | 0.89               | 0.39          |

**Table D-6** Cost Effectiveness by Program for SCG

| ProgramID |   | Total Reso      | urce Cost        | Prog<br>Administra |               |
|-----------|---|-----------------|------------------|--------------------|---------------|
|           | ProgramName                               | Reported<br>TRC | Evaluated<br>TRC | Reported PAC       | Evaluated PAC |
| SCG3600   | Local02 - Local Whole<br>Home Performance | 0.27            | 0.14             | 0.43               | 0.22          |
| SCG3601   | Local05 - Local Non-<br>Residential BID   | 2.02            | 2.44             | 6.37               | 7.71          |

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| ProgramID         ProgramName         Reported TRC         Evaluated TRC         Rep P           SCG3602         SW-AgA - Calculated         1.69         2.04           SCG3603         SW-AgB - Deemed         0.92         0.92           SCG3604         SW-AgC - Nonresidential Audits         -         -           SCG3605         SW-AgD - Pump Test & Repair         -         -           SCG3606         SW-AgE - Continuous Energy Improvement         -         -           SCG3607         SW-ComA - Calculated         0.93         1.11           SCG3608         SW-ComB - Deemed         0.87         0.87           SCG3609         SW-ComC - Nonresidential Audits         -         -           SCG3610         SW-ComD - Continuous Energy Improvement         -         -           SCG3611         SW-IndA - Calculated         2.39         2.90           SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential Audits         -         -           SCG3614         SW-ResA - Multifamily EE Rebates         1.08         1.08           SCG3615         SW-ResA - Multifamily EE Rebates         1.08         1.08           SCG3616         SW-ResC - Home Efficiency   |    |                      | Total Reso | Total Resource Cost |              | Program Administration Cost |  |  |
|--|----|----------------------|------------|---------------------|--------------|-----------------------------|--|--|
| SCG3602         SW-AgA - Calculated         1.69         2.04           SCG3603         SW-AgB - Deemed         0.92         0.92           SCG3604         SW-AgC - Nonresidential Audits         -         -           SCG3604         SW-AgC - Nonresidential Audits         -         -           SCG3605         SW-AgE - Continuous Energy Improvement         -         -           SCG3606         SW-AgE - Continuous Energy Improvement         -         -           SCG3607         SW-ComA - Calculated         0.93         1.11           SCG3608         SW-ComB - Deemed         0.87         0.87           SCG3609         SW-ComB - Deemed         0.87         0.87           SCG3610         SW-ComD - Continuous Energy Improvement         -         -           SCG3611         SW-IndA - Calculated         2.39         2.90           SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential Audits         -         -           SCG3614         SW-IndD - Continuous Energy Improvement         -         -           SCG3615         SW-ResA - Multifamily EE Rebates         1.08         1.08           SCG3616         SW-ResC - Home Efficiency Energy Survey  | D  | D ProgramName        | Reported   | Evaluated           | Reported PAC | Evaluated PAC               |  |  |
| SCG3604         SW-AgC - Nonresidential Audits         -   | S١ | SW-AgA - Calculated  | 1.69       | 2.04                | 3.48         | 4.22                        |  |  |
| SCG3605         Audits         -         -           SCG3605         SW-AgD - Pump Test & Repair         -         -           SCG3606         SW-AgE - Continuous Energy Improvement         -         -           SCG3607         SW-ComA - Calculated         0.93         I.11           SCG3608         SW-ComB - Deemed         0.87         0.87           SCG3609         SW-ComC - Nonresidential         -         -           Audits         -         -         -           SCG3610         SW-ComD - Continuous Energy Improvement         -         -           SCG3611         SW-IndA - Calculated         2.39         2.90           SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential Audits         -         -           SCG3614         SW-IndD - Continuous Energy Improvement         -         -           SCG3614         SW-ResA - Multifamily EE Rebates         1.08         1.08           SCG3615         SW-ResB - Home Efficiency Rebates         -         -         -           SCG3616         SW-ResD - Prescriptive Whole House Retrofit         0.01         0.01         0.01           SCG3618         Whole House Retrofit <td< td=""><td>S\</td><td>SW-AgB - Deemed</td><td>0.92</td><td>0.92</td><td>1.07</td><td>1.07</td></td<>  | S\ | SW-AgB - Deemed      | 0.92       | 0.92                | 1.07         | 1.07                        |  |  |
| SCG3606         Repair         -         -         -           SCG3606         SW-AgE - Continuous<br>Energy Improvement         -         -         -           SCG3607         SW-ComA - Calculated         0.93         1.11           SCG3608         SW-ComB - Deemed         0.87         0.87           SCG3609         SW-ComC - Nonresidential<br>Audits         -         -           SCG3610         SW-ComD - Continuous<br>Energy Improvement         -         -           SCG3611         SW-IndA - Calculated         2.39         2.90           SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential<br>Audits         -         -           SCG3614         SW-IndD - Continuous<br>Energy Improvement         -         -           SCG3615         SW-ResA - Multifamily EE<br>Rebates         1.08         1.08           SCG3616         SW-ResB - Home Efficiency<br>Rebates         0.84         0.84           SCG3617         SW-ResC - Home Efficiency<br>Energy Survey         -         -           SCG3618         SW-ResD - Prescriptive<br>Whole House Retrofit         0.01         0.01           SCG3620         L-InstP01 - CA Depart of<br>Corrections Partnership         -         -         -  |    | 9                    | -          | -                   | -            | -                           |  |  |
| Energy Improvement   Company   Com |    |                      | -          | -                   | -            | -                           |  |  |
| SCG3608         SW-ComB - Deemed         0.87         0.87           SCG3609         SW-ComC - Nonresidential Audits         -         -           SCG3610         SW-ComD - Continuous Energy Improvement         -         -           SCG3611         SW-IndA - Calculated         2.39         2.90           SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential Audits         -         -         -           SCG3614         SW-IndD - Continuous Energy Improvement         -         -         -         -           SCG3615         SW-ResA - Multifamily EE Rebates         I.08         I.08         I.08           SCG3616         SW-ResB - Home Efficiency Rebates         0.84         0.84         0.84           SCG3617         SW-ResC - Home Efficiency Energy Survey         -         -         -         -           SCG3618         SW-ResD - Prescriptive Whole House Retrofit         0.01         0.01         0.01           SCG3619         L-InstP01 - CA Depart of Corrections Partnership         -         -         -           SCG3620         L-InstP02 - CA Community College Partnership         -         -         -           L-InstP04 - State of         -  |    |                      | -          | -                   | -            | -                           |  |  |
| SCG3609         SW-ComC - Nonresidential Audits         -  | S/ | SW-ComA - Calculated | 0.93       | 1.11                | 4.39         | 5.26                        |  |  |
| SCG3609         Audits         -         -         -           SCG3610         SW-ComD - Continuous Energy Improvement         -         -         -           SCG3611         SW-IndA - Calculated         2.39         2.90           SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential Audits         -         -         -           SCG3614         SW-IndD - Continuous Energy Improvement         -         -         -         -           SCG3615         SW-ResA - Multifamily EE Rebates         I.08         I.08           SCG3616         SW-ResB - Home Efficiency Rebates         0.84         0.84           SCG3617         SW-ResC - Home Efficiency Energy Survey         -         -           SCG3618         SW-ResD - Prescriptive Whole House Retrofit         0.01         0.01           SCG3619         L-InstP01 - CA Depart of Corrections Partnership         -         -           SCG3620         L-InstP02 - CA Community College Partnership         -         -           SCG3621         L-InstP03 - UC/CSU/IOU Partnership         -         -         -   | SI | SW-ComB - Deemed     | 0.87       | 0.87                | 1.01         | 1.01                        |  |  |
| SCG3610   Energy Improvement   SCG3611   SW-IndA - Calculated   2.39   2.90  |    |                      | tial -     | -                   | -            | -                           |  |  |
| SCG3612         SW-IndB - Deemed         5.23         5.98           SCG3613         SW-IndC - Nonresidential Audits         -         -           SCG3614         SW-IndD - Continuous Energy Improvement         -         -           SCG3615         SW-ResA - Multifamily EE Rebates         1.08         1.08           SCG3616         SW-ResB - Home Efficiency Rebates         0.84         0.84           SCG3617         SW-ResC - Home Efficiency Energy Survey         -         -           SCG3618         SW-ResD - Prescriptive Whole House Retrofit         0.01         0.01           SCG3619         L-InstP01 - CA Depart of Corrections Partnership         -         -           SCG3620         L-InstP02 - CA Community College Partnership         -         -           SCG3621         L-InstP03 - UC/CSU/IOU Partnership         -         -   |    |                      | -          | -                   | -            | -                           |  |  |
| SCG3613 SW-IndC - Nonresidential Audits SCG3614 SW-IndD - Continuous Energy Improvement  SCG3615 SW-ResA - Multifamily EE Rebates SCG3616 SW-ResB - Home Efficiency Rebates SCG3617 SW-ResC - Home Efficiency Energy Survey  SCG3618 SW-ResD - Prescriptive Whole House Retrofit SCG3619 L-InstP01 - CA Depart of Corrections Partnership SCG3620 L-InstP02 - CA Community College Partnership  SCG3621 L-InstP03 - UC/CSU/IOU Partnership L-InstP04 - State of  | S\ | SW-IndA - Calculated | 2.39       | 2.90                | 7.08         | 8.57                        |  |  |
| SCG3613 Audits  SCG3614 SW-IndD - Continuous Energy Improvement  SCG3615 SW-ResA - Multifamily EE Rebates  SCG3616 SW-ResB - Home Efficiency Rebates  SCG3617 SW-ResC - Home Efficiency Energy Survey  SCG3618 SW-ResD - Prescriptive Whole House Retrofit  SCG3619 L-InstP01 - CA Depart of Corrections Partnership  SCG3620 L-InstP02 - CA Community College Partnership  SCG3621 L-InstP03 - UC/CSU/IOU Partnership  L-InstP04 - State of   | SI | SW-IndB - Deemed     | 5.23       | 5.98                | 7.40         | 8.46                        |  |  |
| Energy Improvement  SCG3615  SW-ResA - Multifamily EE Rebates  SW-ResB - Home Efficiency Rebates  SCG3616  SW-ResC - Home Efficiency Energy Survey  SCG3618  SW-ResD - Prescriptive Whole House Retrofit  SCG3619  L-InstP01 - CA Depart of Corrections Partnership  SCG3620  L-InstP02 - CA Community College Partnership  SCG3621  L-InstP03 - UC/CSU/IOU Partnership  L-InstP04 - State of  |    |                      | al _       | -                   | -            | -                           |  |  |
| Rebates  SCG3616  SW-ResB - Home Efficiency Rebates  SCG3617  SW-ResC - Home Efficiency Energy Survey  SCG3618  SW-ResD - Prescriptive Whole House Retrofit  SCG3619  L-InstP01 - CA Depart of Corrections Partnership  SCG3620  L-InstP02 - CA Community College Partnership  SCG3621  L-InstP03 - UC/CSU/IOU Partnership  L-InstP04 - State of   |    |                      | -          | -                   | -            | -                           |  |  |
| SCG3616 Rebates  SCG3617 SW-ResC - Home Efficiency Energy Survey  SCG3618 SW-ResD - Prescriptive Whole House Retrofit  SCG3619 L-InstP01 - CA Depart of Corrections Partnership  SCG3620 L-InstP02 - CA Community College Partnership  SCG3621 L-InstP03 - UC/CSU/IOU Partnership L-InstP04 - State of   |    | ,                    | 1.08       | 1.08                | 1.73         | 1.73                        |  |  |
| SCG3617 Energy Survey  SCG3618 SW-ResD - Prescriptive Whole House Retrofit  SCG3619 L-InstP01 - CA Depart of Corrections Partnership  SCG3620 L-InstP02 - CA Community College Partnership  SCG3621 L-InstP03 - UC/CSU/IOU Partnership L-InstP04 - State of  |    |                      | 0.84       | 0.84                | 2.67         | 2.67                        |  |  |
| SCG3618 Whole House Retrofit  SCG3619 L-InstP01 - CA Depart of Corrections Partnership  SCG3620 L-InstP02 - CA Community College Partnership  SCG3621 L-InstP03 - UC/CSU/IOU Partnership L-InstP04 - State of  |    |                      | ncy -      | -                   | -            | -                           |  |  |
| Corrections Partnership  SCG3620  L-InstP02 - CA Community College Partnership  SCG3621  L-InstP03 - UC/CSU/IOU Partnership  L-InstP04 - State of  |    |                      | 0.01       | 0.01                | 0.01         | 0.01                        |  |  |
| College Partnership  SCG362I  L-InstP03 - UC/CSU/IOU Partnership  L-InstP04 - State of   |    |                      | -          | -                   | -            | -                           |  |  |
| Partnership  L-InstP04 - State of  |    |                      | <u>-</u>   | -                   | -            | -                           |  |  |
| L-InstP04 - State of   |    |                      | -          | -                   | -            | -                           |  |  |
| SCG3622 California /IOU Partnership  |    |                      | ip -       | -                   | -            | -                           |  |  |
| SCG3623 SW-ME&OB - SW Marketing, E&O FYP   |    |                      | -          | -                   | -            | -                           |  |  |
| SCG3624 SW-ETA - Assessments   | S\ | SW-ETA - Assessments | -          | -                   | -            | -                           |  |  |

|           |  | Total Reso      | urce Cost        | Program Administration Cost |                  |  |
|-----------|--|-----------------|------------------|-----------------------------|------------------|--|
| ProgramID | ProgramName  | Reported<br>TRC | Evaluated<br>TRC | Reported PAC                | Evaluated<br>PAC |  |
| SCG3625   | SW-NCNR - NRNC Savings<br>By Design                  | 1.27            | 1.06             | 2.39                        | 1.99             |  |
| SCG3626   | SW-NCResA - RNC                                      | 0.40            | 0.40             | 0.59                        | 0.59             |  |
| SCG3627   | SW-WE&TA - Strategic<br>Planning & Implementation    | -               | -                | -                           | -                |  |
| SCG3628   | SW-WE&TB - WE&T<br>Centers                           | -               | -                | -                           | -                |  |
| SCG3629   | SW-WE&TC - WE&T<br>Connections                       | -               | -                | -                           |                  |  |
| SCG3630   | LGovP01 - LA County IOU<br>Partnership               | -               | -                | -                           | -                |  |
| SCG3631   | LGovP02 - Kern County<br>Energy Watch Partnership    | -               | -                | -                           | -                |  |
| SCG3632   | LGovP03 - Riverside County<br>Partnership            | -               | -                | -                           |                  |  |
| SCG3633   | LGovP04 - San Bernardino<br>County IOU Partnership   | -               | -                | -                           | -                |  |
| SCG3634   | LGovP05 - Santa Barbara<br>County IOU Partnership    | -               | -                | -                           | -                |  |
| SCG3635   | LGovP06 - SBCCOG<br>Partnership                      | -               | -                | -                           | -                |  |
| SCG3636   | LGovP07 - San Luis Obispo<br>County Partnership      | -               | -                | -                           | -                |  |
| SCG3637   | LGovP08 - Tulare Cnty-<br>Visalia Energy Watch Prtnr | -               | -                | -                           | -                |  |
| SCG3638   | LGovP09 - Orange County<br>Cities Partnership        | -               | -                | -                           | -                |  |
| SCG3639   | LGovP10 - ILG IOU<br>Partnership                     | -               | -                | -                           | -                |  |
| SCG3640   | LGovPII - Community<br>Energy Partnership            | -               | -                | -                           | -                |  |
| SCG3641   | LGovP12 - Desert Cities<br>Partnership               | -               | -                | -                           |                  |  |
| SCG3642   | LGovPI3 - VCREA Sub-<br>Program Partnership          | -               | -                | -                           | -                |  |
| SCG3643   | LGovP14 - Palm Desert IOU<br>Pilot Partnership       | -               | -                | -                           | -                |  |
| SCG3644   | Local01 - OBF  | <u> </u>        | <u> </u>         | -                           |                  |  |
| SCG3645   | Local03 - Local Sustainable<br>Communities (RMV)     | -               | -                | -                           | -                |  |

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|           |   | Total Reso      | urce Cost        | Program Administration Cost |               |  |
|-----------|---|-----------------|------------------|-----------------------------|---------------|--|
| ProgramID | <b>P</b> rogram <b>N</b> ame  | Reported<br>TRC | Evaluated<br>TRC | Reported PAC                | Evaluated PAC |  |
| SCG3646   | Local04 - Local Strategic<br>Develop & Integ                        | -               | -                | -                           | -             |  |
| SCG3651   | SW-HVACA - Residential<br>Energy Star Quality Insta                 | -               | -                | -                           |               |  |
| SCG3652   | SW-HVACB - Commercial Quality Installation                          | -               | -                | -                           | -             |  |
| SCG3653   | SW-HVACC - Commercial<br>Upstream Equipment                         | -               | -                | -                           | -             |  |
| SCG3654   | SW-HVACD - Quality<br>Maintenance Program                           | -               | -                | -                           | -             |  |
| SCG3655   | SW-HVACE - Technology & Systems Diagnostics                         | -               | -                | -                           | -             |  |
| SCG3656   | SW-HVACF - HVAC WE&T  | -               | -                | -                           | -             |  |
| SCG3657   | SW-HVACG - HVAC Core  | -               | -                | -                           |               |  |
| SCG3658   | SW-IDSM - SW Integrated DSM   | -               | -                | -                           | -             |  |
| SCG3659   | SW-ME&O C - ME&O<br>Strategic Plan                                  | -               | -                | -                           | -             |  |
| SCG3660   | 3P-NResl - Steam Trap and<br>Compressed Air Survey                  | -               | -                | -                           | -             |  |
| SCG3661   | 3P-NRes2 - Energy<br>Challenger                                     | -               | -                | -                           | -             |  |
| SCG3662   | 3P-NRes3 - Small Industrial<br>Facility Upgrades                    | 0.44            | 0.47             | 0.83                        | 0.87          |  |
| SCG3663   | 3P-NRes4 - Program for<br>Resource Efficiency in Private<br>Schools | 1.07            | 1.10             | 1.27                        | 1.31          |  |
| SCG3664   | 3P-Res01 - On Demand<br>Efficiency                                  | 1.65            | 1.65             | 2.08                        | 2.08          |  |
| SCG3665   | 3P-Res02 - HERS Rater<br>Training Advancement                       | -               | -                | -                           | -             |  |
| SCG3666   | 3P-Res03 - Multifamily<br>Home Tune-Up                              | 1.26            | 1.26             | 1.53                        | 1.53          |  |
| SCG3667   | 3P-Res04 - Multifamily Solar<br>Pool Heating                        | 0.14            | 0.14             | 0.15                        | 0.15          |  |
| SCG3668   | 3P-Res05 - Community<br>Language Effic Outreach                     | -               | -                | -                           | -             |  |
| SCG3669   | 3P-Res06 - Multifamily<br>Direct Therm Savings                      | 1.59            | 1.59             | 1.70                        | 1.70          |  |
| SCG3670   | 3P-Res07 - LivingWise   | 3.53            | 3.53             | 4.27                        | 4.27          |  |

|           |  |                 | <b>-</b> .       | Prog         |               |
|-----------|--|-----------------|------------------|--------------|---------------|
|           |  | Total Reso      | urce Cost        | Administra   | ation Cost    |
| ProgramID | ProgramName  | Reported<br>TRC | Evaluated<br>TRC | Reported PAC | Evaluated PAC |
| SCG3671   | 3P-Res09 - Manufactured<br>Mobile Home                 | 2.16            | 2.16             | 2.23         | 2.23          |
| SCG3672   | 3P-Xc01 - Gas Cooling<br>Retrofit                      | 0.17            | 0.17             | 0.18         | 0.18          |
| SCG3673   | 3P-Xc02 - SaveGas Hot<br>Water Control                 | 2.36            | 2.36             | 2.36         | 2.36          |
| SCG3674   | 3P-Xc03 - Upstream High<br>Efficiency Gas Water Heater | 0.60            | 0.60             | 2.56         | 2.56          |
| SCG3675   | 3P-Xc04 - California<br>Sustainability Alliance        | -               | -                | -            | -             |
| SCG3676   | 3P-Xc05 - Portfolio of the Future (PoF)                | -               | -                | -            | -             |
| SCG3677   | 3P-Xc06 - PACE Energy<br>Savings Project               | -               | -                | -            | -             |
| SCG3678   | EM&V - Evaluation<br>Measurement & Verification        | -               | -                | -            | -             |

**Table D-7** Cost Effectiveness by Program for SDG&E

|           |  |                            |                  | Progr               | am            |
|-----------|--|----------------------------|------------------|---------------------|---------------|
|           |  | <b>Total Resource Cost</b> |                  | Administration Cost |               |
| ProgramID | ProgramName                                | Reported<br>TRC            | Evaluated<br>TRC | Reported PAC        | Evaluated PAC |
| SDGE3100  | SW-AgA - Calculated                        | 0.39                       | 0.20             | 0.54                | 0.29          |
| SDGE3101  | SW-AgB - Deemed                            | 1.05                       | 0.89             | 1.23                | 1.05          |
| SDGE3102  | SW-AgC - Nonresidential<br>Audits          | -                          | -                | -                   | -             |
| SDGE3103  | SW-AgD - Pump Test &<br>Repair             | -                          | -                | -                   | -             |
| SDGE3104  | SW-AgE - Continuous<br>Energy Improvement  | -                          | -                | -                   | -             |
| SDGE3105  | SW-ComA - Calculated                       | 1.32                       | 0.97             | 4.83                | 3.54          |
| SDGE3106  | SW-ComB - Deemed                           | 1.60                       | 1.15             | 4.34                | 3.11          |
| SDGE3107  | SW-ComC - Nonresidential Audits            | -                          | -                | -                   | -             |
| SDGE3108  | SW-ComD - Continuous<br>Energy Improvement | -                          | -                | -                   | -             |
| SDGE3109  | SW-IndA - Calculated                       | 1.12                       | 0.72             | 2.93                | 1.89          |
| SDGE3110  | SW-IndB - Deemed                           | 2.03                       | 1.24             | 3.20                | 1.96          |
| SDGE3111  | SW-IndC - Nonresidential<br>Audits         | -                          | -                | -                   | -             |

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|           |  | Total Reso   | urce Cost        | Progr<br>Administra |                  |
|-----------|--|--------------|------------------|---------------------|------------------|
| ProgramID | ProgramName  | Reported TRC | Evaluated<br>TRC | Reported PAC        | Evaluated<br>PAC |
| SDGE3112  | SW-IndD - Continuous<br>Energy Improvement               | -            | -                | -                   | -                |
| SDGE3113  | SW-ResA - Residential Basic<br>Lighting                  | 4.39         | 4.37             | 5.09                | 5.07             |
| SDGE3114  | SW-ResB - Advanced<br>Consumer Lighting                  | 2.24         | 2.04             | 3.93                | 3.59             |
| SDGE3115  | SW-ResG - Business/<br>Consumer Electronics/Plug<br>Load | 0.70         | 0.68             | 1.58                | 1.55             |
| SDGE3116  | Local01 - Local Whole<br>House Perfomance                | 0.74         | 0.33             | 0.78                | 0.35             |
| SDGE3117  | Local03 - Local Non-<br>Residential (BID)                | 1.71         | 1.16             | 4.19                | 2.84             |
| SDGE3118  | SW-NCNR - NRNC<br>Savings By Design                      | 2.02         | 1.13             | 3.15                | 1.77             |
| SDGE3119  | SW-ResC - Multi-Family                                   | 0.93         | 0.93             | 1.31                | 1.31             |
| SDGE3120  | SW-NCResB - E-Star<br>Manufactured Homes                 | 0.02         | 0.02             | 0.02                | 0.02             |
| SDGE3121  | SW-ResD - Home Efficiency<br>Rebates                     | 0.72         | 0.72             | 1.90                | 1.89             |
| SDGE3122  | SW-ResE - Home Efficiency<br>Surveys                     | -            | -                | -                   | -                |
| SDGE3123  | L-InstP01 - CA Depart of<br>Corrections Partnership      | -            | -                | -                   | -                |
| SDGE3124  | L-InstP02 - CA Community<br>College Partnership          | -            | -                | -                   | -                |
| SDGE3125  | L-InstP03 - UC/CSU/IOU<br>Partnership                    | -            | -                | -                   | -                |
| SDGE3126  | L-InstP04 - State of<br>California /IOU Partnership      | -            | -                | -                   | -                |
| SDGE3127  | L-InstP05 - University of San<br>Diego Partnership       | -            | -                | -                   | -                |
| SDGE3128  | L-InstP06 - San Diego Cnty<br>Water Auth Partnership     | -            | -                | -                   | -                |
| SDGE3129  | LGovP01 - City of Chula<br>Vista Partnership             | -            | -                | -                   | -                |
| SDGE3130  | LGovP02 - City of San<br>Diego Partnership               | -            | -                | -                   |                  |
| SDGE3131  | LGovP03 - County of San<br>Diego Partnership             | -            | -                | -                   | -                |

|           |  | Total Reso      | Total Resource Cost |              | Program Administration Cost |  |  |
|-----------|--|-----------------|---------------------|--------------|-----------------------------|--|--|
| ProgramID | ProgramName  | Reported<br>TRC | Evaluated<br>TRC    | Reported PAC | Evaluated PAC               |  |  |
| SDGE3132  | LGovP04 - City of San Juan<br>Capistrano Partnership | -               | -                   | -            | -                           |  |  |
| SDGE3133  | LGovP05 - Port of San<br>Diego Partnership           | -               | -                   | -            | -                           |  |  |
| SDGE3134  | LGovP06 - SANDAG<br>Partnership                      | -               | -                   | -            | -                           |  |  |
| SDGE3135  | LGovP07 - ICLEI<br>Partnership                       | -               | -                   | -            | -                           |  |  |
| SDGE3136  | LGovP08 - New Cities<br>Partnership                  | -               | -                   | -            | -                           |  |  |
| SDGE3137  | Local02 - Local Island<br>Program                    | 0.42            | 0.42                | 0.42         | 0.42                        |  |  |
| SDGE3138  | Local04 - Local Sustainable<br>Communities (RMV)     | -               | -                   | -            | -                           |  |  |
| SDGE3139  | Local05 - OBF  | -               | -                   | -            | -                           |  |  |
| SDGE3140  | Local06 - Local Strategic<br>Development & Integrat  | -               | -                   | -            | -                           |  |  |
| SDGE3145  | SW-HVACA - Residential<br>Energy Star Quality Instal | -               | -                   | -            | -                           |  |  |
| SDGE3146  | SW-HVACB - Commercial Quality Installation           | -               | -                   | -            | -                           |  |  |
| SDGE3147  | SW-HVACC - Commercial<br>Upstream Equipment          | -               | -                   | -            | -                           |  |  |
| SDGE3148  | SW-HVACD - Quality<br>Maintenance Program            | -               | -                   | -            | -                           |  |  |
| SDGE3149  | SW-HVACE - Technology & Systems Diagnostics          | -               | -                   | -            | -                           |  |  |
| SDGE3150  | SW-HVACF - HVAC WE&T                                 | -               | -                   | -            | -                           |  |  |
| SDGE3151  | SW-HVACG - HVAC Core                                 | -               | -                   | -            | _                           |  |  |
| SDGE3152  | SW-IDSM - SW Integrated<br>DSM                       | -               | -                   | -            | -                           |  |  |
| SDGE3153  | SW Marketing, E&O FYP                                | -               | -                   | -            | -                           |  |  |
| SDGE3154  | SW-ME&O C - Strategic Plan                           |                 |                     |              | -                           |  |  |
| SDGE3155  | SW-ETA - Assessments                                 | -               | -                   | -            | -                           |  |  |
| SDGE3156  | SW-ResH - Prescriptive<br>Whole House Retrofit       | 0.26            | 0.16                | 0.26         | 0.16                        |  |  |
| SDGE3157  | SW-WE&TA - Strategic<br>Planning & Implementation    | -               | -                   | -            | -                           |  |  |

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|           |   | Total Resource Cost |                  | Program Administration Cost |               |
|-----------|---|---------------------|------------------|-----------------------------|---------------|
| ProgramID | ProgramName   | Reported<br>TRC     | Evaluated<br>TRC | Reported PAC                | Evaluated PAC |
| SDGE3158  | SW-WE&TB - WE&T<br>Centers – SDERC, Food<br>Service Cen | -                   | -                | -                           | -             |
| SDGE3159  | SW-WE&TC - WE&T<br>Connections – PEAK<br>Program        | -                   | -                | -                           | -             |
| SDGE3160  | SW-NCResA - RNC   | 0.40                | 0.40             | 0.51                        | 0.51          |
| SDGE3161  | 3P-NRes01 - Non-Res<br>HVAC Tune-up/Quality<br>Installa | 1.13                | 0.98             | 1.62                        | 1.42          |
| SDGE3162  | 3P-NRes02 - SaveGas Hot<br>Water Control                | 2.05                | 2.05             | 2.27                        | 2.27          |
| SDGE3163  | 3P-NRes03 - Business<br>Energy Assessment (BEA)         | -                   | -                | -                           | -             |
| SDGE3164  | 3P-NRes06 - Energy<br>Efficient Water Pumping           | -                   | -                | -                           | -             |
| SDGE3165  | 3P-NRes07 - Healthcare<br>Energy Efficiency Program     | -                   | -                | -                           | -             |
| SDGE3166  | 3P-NRes08 - Lodging<br>Energy Efficiency Program        | -                   | -                | -                           | -             |
| SDGE3167  | 3P-NRes09 - Mobile Energy<br>Clinic (MEC)               | 0.81                | 0.71             | 0.83                        | 0.72          |
| SDGE3168  | 3P-NResII - Portfolio of the Future (PoF)               | -                   | -                | -                           | -             |
| SDGE3169  | 3P-NRes12 -<br>Comprehensive Industrial<br>Energy Effic | -                   | -                | -                           | -             |
| SDGE3170  | 3P-NRes13 - Retro<br>Commissioning (RCx)                | 2.91                | 1.27             | 3.56                        | 1.55          |
| SDGE3171  | 3P-Res01 - Res HVAC<br>Tune-up/Quality Installation     | 0.45                | 0.45             | 0.54                        | 0.54          |
| SDGE3172  | 3P-Res02 - Comprehensive<br>Mobile Home (SW)            | 0.88                | 0.88             | 1.24                        | 1.24          |
| SDGE3173  | 3P-Res04 - K-I2 Energy<br>Efficiency Education (E3)     | -                   | -                | -                           | -             |
| SDGE3174  | SW-ComE - Direct Install                                | 1.36                | 0.74             | 1.37                        | 0.75          |
| SDGE3175  | SW-ResF - Appliance<br>Recycling                        | 1.08                | 0.58             | 1.46                        | 0.79          |
| SDGE3176  | Kitchen Learning Center                                 | -                   | -                | -                           | -             |
| SDGE3177  | EM&V-Evaluation<br>Measurement & Verification           | -                   | -                | -                           | -             |

### 2010 – 2012 Energy Efficiency Evaluation Report | Appendix - D

| ProgramID | ProgramName   | Total Resource Cost |                  | Program Administration Cost |                  |
|-----------|---|---------------------|------------------|-----------------------------|------------------|
|           |   | Reported<br>TRC     | Evaluated<br>TRC | Reported PAC                | Evaluated<br>PAC |
| SDGE3178  | LGovP10 - County of San<br>Diego - ARRA Continued<br>Programs | -                   | -                | -                           | -                |
| SDGE3179  | LGovP09 - City of San Diego<br>- ARRA Continued Programs      | -                   | -                | -                           | -                |

Appendix - D | 2010 – 2012 Energy Efficiency Evaluation Report